

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/538,252	06/09/2005	Dirk A Heerding	P51399	1871
	7590 04/04/200 BEECHAM CORPOR	EXAMINER		
CORPORATE	INTELLECTUAL PR	HAVLIN, ROBERT H		
P. O. BOX 153 KING OF PRU	9 SSIA, PA 19406-0939		ART UNIT	PAPER NUMBER
		1609		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
31 D	AYS	04/04/2007	PAF	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/538,252	HEERDING ET AL.
Office Action Summary	Examiner	Art Unit
	Robert Havlin	1609
The MAILING DATE of this communication app		orrespondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status	·	
1)⊠ Responsive to communication(s) filed on 09 Ju	ne 2005	
· · · <u>_</u>	action is non-final.	
3) Since this application is in condition for allowan	·	secution as to the merits is
closed in accordance with the practice under E.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-10,14-16,27,28 and 44</u> is/are pendir	og in the application	
4a) Of the above claim(s) is/are withdraw	•	
5) Claim(s) is/are allowed.	•	
6) Claim(s) is/are rejected.		•
7) Claim(s) is/are objected to.		·
8) Claim(s) <u>1-10,14-16,27,28 and 44</u> are subject to	o restriction and/or election requi	rement.
Application Papers		
9) The specification is objected to by the Examiner	·.	
10) The drawing(s) filed on is/are: a) acce		xaminer.
Applicant may not request that any objection to the o		
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).
 Certified copies of the priority documents 	have been received.	
Certified copies of the priority documents	have been received in Application	on No
3. Copies of the certified copies of the priori	•	d in this National Stage
application from the International Bureau	, , ,	
* See the attached detailed Office action for a list of	of the certified copies not received	d.
Attachment(a)		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary ((PTO-413)
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application

Art Unit: 1609

DETAILED ACTION

Claims 1-10, 14-16, 27-28, and 44 are currently pending.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3 and 10, drawn to a product of Formula I, wherein R1-4 does not contain a heterocyclic group and AR is a substituted six membered heterocyclic group.

Group II, claim(s) 1-3 and 10, drawn to a product of Formula I, wherein R1-4 does contain a heterocyclic group and is not encompassed in group I above.

Group III, claim(s) 44, drawn to intermediate products.

Group IV-V, claim(s) 15, drawn to a method of making products of groups I or II respectively.

Group VI-VII, claim(s) 4-9, 14, and 16, drawn to a method of using products of groups I or II respectively for treating a mammal.

Group VIII-IX, claim(s) 27 and 28, drawn to a method of using products of groups I or II respectively for enhancing survival of cells.

2. The inventions listed as Groups I-IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Application/Control Number: 10/538,252 Page 3

Art Unit: 1609

The core structure of formula I is , which is known in the art. For example US 4,859,684 teaches the numerous compounds falling into the genus of formula I

N R ²							
	3	R-CH-	N				
No. R	RI	R ²	sair/base	(.c.)			
40 H	H	(3-pyridinylmethyl)	3 HCI	254,5			
41 H	H	2-CH3O-C4H4	base	135.3			
42 H	н	3-CH3O-C6H4	bare	169,7			
43 H	н	(2-pyridinylmethyl)	3 HCL) H2O	222.2			
44 H	н	n-C6H13	2 (COOH)2-1 H2O	101.8			
45 H	H	(4-pyridinyl)CH=CH		234.1			
46 H	H	(3-pyridinyl)CH=CH	3 HCl.H2O	270.3			
47 H	н	2-thicnyl	base	196.4			
48 H	H	(1H -imidazoi-5-yi)-	3 HCL11 H2O	237.0			
	CH	=CR					
49 C6H5	H	4-CH ₃ OC ₆ H ₄	base	236.5			
50 H	H	2-CH3-C6H4	2 (COOH)2	176.0			
51 H	H	4-thiszolyi	2 HCL2 H2O	147.6			
52 H	Ħ	3-quinolinyi	base	>300			
53 H	Ħ-	2-NH2-3-pyridinyl	base	267.5			
34 C2H5	Ħ	C ₆ H ₅	base	203.7			
55 C2H5	Н	4-F-C6H4	base	197.4			
56 i-CaHo	H	4-F-C6H4	base	187.9			
57 n-C4H9:	H	C6H5	base	153.4			
58 CH ₃	H	4-FC6H4	base	191.1			
59 I-C4H9	H	C6H5	11 (COOH)2-1	105.5			
		•	H ₂ O				
50 CH ₃	H	C ₆ H ₅	base	196.2			
61 n-C4H9	H	4F-C6H4	base	163.8			
62 CH ₃		C ₆ H ₉	1 (COOH)2	144.6			
63 CH ₃	CH	4-F-C6H4	2 (COOH)2	151.0			

including the table from page 38: si CHi CHi

Therefore, the technical feature linking the claims does not constitute a special technical feature under PCT Rule 13.2. Accordingly, the claims lack unity of invention, and restriction is proper.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Art Unit: 1609

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. The examiner has required restriction between product and process claims.

 Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

 All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product

Application/Control Number: 10/538,252 Page 5

Art Unit: 1609

are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Havlin whose telephone number is (571) 272-9066. The examiner can normally be reached on Mon. - Fri., 7:30am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful the examiner's supervisor, Cecilia Tsang can be reached at (571)-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/538,252

Page 6

Art Unit: 1609

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert Havlin Wickle KIM

Examiner PRIMARY EXAMINER

RH